underlined = sequence deleted in targeting construct (SEQ ID NO:5)

[ ] = sequences flanking Neo insert in targeting construct (SEQ ID NO:6 and SEQ ID NO:7)

```
AGGGAGAGTCTGCCCACAAGTTTTTGTATATTTTCTCACTGAGGCATCTATTCAGTTTGG
GCAGCAGACACTGAGCAGAACGTAGCACGGCAATGCTTGGTAGCAATGCCTGTCCGGCCA
GCACTCAGAAGACGGAGGCAGGAGAATCATAGCTTCCAGTCAGCCTCTTCTACAATATAG
TCAGTTGGAAGTCAGCCAGCTTAGACAACATGGAGAGCCTGT [GCCGAAAGCCACTGGGT
AAGCCCGAATCTCAGTAGCAGAGAGCTGCCCAGGGTGCGTACTGCAAAAAAAAAACCTCA
AACAACAGAAGTAGGGAGGTGTAAAATAAAGTGTAGGGGGGTGGAATTTAAGCTGATGTG
GACTTCCAAATAAAGTTACCTTTTAGATACCTATTTAAATCAATAGCATAGACCTGAAAC
TGTCTATCAGAAAATGTGTCTATTCTGAGGAAGGAGTGCTAACGAGGTTCTGTGAGGGGG
GCCTCTGGCTTTGAGAGGGTGTACCATCACATAAGACTCCTAAAAGCACATACTTTTATA
AATTCACCATGAGCTTTAACATCTTCTTTGTCATTTCGCAGACTGAGCCATGGAGTCTTT
CGATGCTGACACCAATTCAACTGACCTACACTCACGGCCTCTGTTTCAACCCCAAGACAT
TGC] CTCCATGGTCATTCTTGGTCTCACTTGTCTATTGGGACTGCTAGGCAATGGGCTGG
TGCTGTGGGTAGCTGGCGTAAAGATGAAGACGACCGTGAACACAGTCTGGTTCCTCCATC
TCACCCTGGCCGATTTCCTCTGCTGCCTCTCCTTGCCCTTCTCCTTGGCTCACCTGATTC
TCCAAGGACACTGGCCCTATG [GCTTGTTCCTGTGCAAACTTATCCCATCCATCATTATT
CTCAACATGTTTGCCAGTGTCTTCCTGCTTACTGCCATTAGCCTGGACCGATGTCTGATA
GTACATAAGCCAATCTGGTGCCAGAATCATCGAAACGTGAGAACCGCCTTCGCCATCTGT
GGATGTGTCTGGGTGGTAGCCTTTGTGATGTGTGTGCCCGTATTTGTATACCGTGATCTG
TTCATTATGGACAATCGCAGTATATGTAGATATAATTTTGATTCCTCCAGGTCATATGAT
TATTGGGACTACGTGTA] CAAACTAAGTCTACCAGAAAGCAATTCTACTGATAACTCCAC
TGCTCAGCTAACTGGACATATGAATGACAGGTCAGCTCCTTCCTCTGTACAGGCAAGGGA
TTACTTTTGGACAGTTACCACTGCCCTCCAGTCACAGCCATTCCTAACATCTCCTGAAGA
CTCATTCTCTCTAGATTCAGCAAACCAACAACCCCATTATGGTGGAAAGCCTCCTAATGT
CCTCACAGCCGCCGTACCCAGCGGGTTTCCTGTTGAAGATCGTAAATCCAATACACTGAA
CGCTGACGCTTTTCTCTCTGCTCACACAGAACTTTTCCCTACTGCTTCTAGTGGTCATTT
ATACCCCTATGATTTCCAGGGGGATTATGTTGACCAATTCACGTATGACAATCATGTGCC
GACACCGCTGATGGCAATAACCATCACAAGGCTGGTGGTGGGCTTCCTGGTGCCGTTTTT
CATCATGGTAATTTGTTACAGCCTCATCGTCTTCAGAATGCGAAAAACCAACTTCACCAA
GTCTCGGAACAAAACCTTTCGGGTGGCTGTGGCTGTGGTCACTGTCTTTTTTATCTGCTG
GACTCCATACCATCTTGTCGGAGTCCTGCTATTGATTACTGATCCAGAAAGTTCCTTGGG
GGAAGCTGTGATGTCCTGGGACCACATGTCCATTGCTTTAGCATCTGCCAATAGTTGCTT
CAACCCTTTCCTGTATGCCCTCTTGGGGAAAGACTTTAGGAAGAAAGCAAGACAGTCTAT
AAAGGGCATTCTGGAAGCAGCCTTCAGCGAAGAGCTCACGCACTCTACCAACTGTACCCA
AGACAAAGCCTCTTCAAAAAGAAACAATATGAGTACAGATGTGTGAAGATGTGGCCCTGG
GAACCTAAGCAGAGTTCTCAGGTGAACAGTGATGGATGACATGTGAGCAGGACACTTTAG
ACAATTTGGCGACTCTCAGAGAAAGGTCTCTTATTGACATCAGCATCATTTGAAAACATT
AAAGATGCAAAATTTCAAGCCCCATCCCAGATGTGTTGACTCAGAATCTCTGGCCCATGG
GACCAGTGTTTTAACAGGCCTTCTTGTTTCCATCAGTGTTAAGTTTTACCTCATTTGGCT
TAGTCTATTCCCATCCCTGACTACACCATGTGCAATGAATAACTTTTTCATCTGTTTTCA
GTATTCTTTTTTTTTCCTTAGCATCATCTAAACTTCTAGTTTGCATGGAAGGCTGCTCTT
ATTGTTCTGAATGGAAGATATTCATTTATTGTACAGTTTTGTGGTGGTGACAAGTGATTT
TTAAGTGGGGAAAGAGACACAGTAAGAAAAGATCTATGAAAGCAGGGAGTGTTGAGTTAG
AGTTTGACAGAACACAGTGCCAAATGCCACCCACTAAAAGCAACCTGAGATAATTCCAGT
GTTCATGTGAGCAAGTGAGCACAGATACACATAAACACTTTCCTACTCCTGGAGTGTTTT
AGAAGTTGTAGCTTGGAGCTC
```

FIGURE 2A